



**PPE XtraSAN Surface Coating – Test Data**

**Acceptance date:**

Matrix: Polymers  
 Transport: Customer  
 Date arrive: 24/11/2020 Time arrive: 15.50  
 Acceptance Date: 24/11/2020



**Sample data:**

Description: PPE XtraSAN Surface Coating

**Report produced by:**

Chimicambiente s.r.l.  
 Via Leonardo Da Vinci, 2  
 35042 Este (PD)

**Testing carried out by:**

Technical Director Dr. Carlo Chimico

**Sampling Data**

Sample edited by: Customer  
 Location: Customer's location

Parameter - Specifications <i>Method - Notes</i>	U.M.	Result Note	Lo Q	LoD	Test Start Test End
Determination of antibacterial activity (R) - R=(Ut-Uo)-(At-Uo) ISO 22196:2011		> 6.0	0,3		24/11/20 27/11/20
Determination of antibacterial activity (R) ISO 22196:2011	%	> 99.999	50		
Size of the surface of the specimens (H x L)	mm	25x75			
Thickness of the specimens	mm	2,0			
Cover film polymer		Polypropylene			
Dimensions of the surface of the cover film (H x L)	mm	20x60			
Thickness of the covering film	mm	0,10			
Strain		Escherichia coli ATCC 8739			
Conditioning Mode		Radiation UV-C (30 min per side)			
Reference Used		Untreated Sample			



Volume of the inoculum	ml	<b>0,3</b>		
Number of bacteria available in the inoculum	n°	<b>160000</b>		
Uo – Counts bacteria recovered from untreated specimens after inoculation	log	<b>4,1</b>		
Ut – Counts bacteria recovered from untreated specimens after 24 hrs. inoculation	log	<b>6,0</b>		
At – Counts bacteria recovered from treated specimens after 24 hrs. inoculation	log	<b>NQ</b>		
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Determination of antibacterial activity (R) - $R=(Ut-Uo)-(At-Uo)$ ISO 22196:2011		<b>&gt; 4.0</b>	0,3	24/11/20 27/11/20
Determination of antibacterial activity (R) ISO 22196:2011	%	<b>&gt; 99.991</b>	50	
Surface dimensions of the specimens (H x L)	mm	<b>25x75</b>		
Thickness of the specimens	mm	<b>2,0</b>		
Cover film polymer		<b>Polypropylene</b>		
Dimensions of the surface of the cover film (H x L)	mm	<b>20x60</b>		
Thickness of the covering film	mm	<b>0,10</b>		
Strain		<b>Staphylococcus aureus - ATCC 6538</b>		
Conditioning mode		<b>Radiation UV-C (30 min per side)</b>		
Reference used		<b>Untreated Sample</b>		
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Volume of the inoculum	ml	<b>0,3</b>		
Number of bacteria available in the inoculum	n°	<b>130000</b>		
Uo – Counts bacteria recovered from untreated specimens after inoculation	log	<b>4,1</b>		
Ut – Counts bacteria recovered from untreated specimens after 24 hrs. inoculation	log	<b>4,0</b>		
At – Counts bacteria recovered from treated specimens after 24 hrs. inoculation	log	<b>NQ</b>		



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**Legend**

If the sampling is not the responsibility of Chimicambiente s.r.l., the latter declines all responsibility for the information relating to sampling as provided by the Customer / Principal; the results of the tests refer exclusively to the sample thus received. When these data include measurements that impact on the unit of measurement, the results expressed are obtained by processing them. The acceptance data are the responsibility of the Laboratory while the data relating to the sample are marked with a "C" if it is the responsibility of the Customer / Client. If the sample is unsuitable but the Customer / Client chooses to continue anyway, the laboratory declines all responsibility for the results that could be influenced by the deviation.

U.M. = unit of measurement; (sup) = upper limit; (inf) = Lower Limit; LoQ = limit of quantification, it is the lower concentration limit above which it is possible to obtain a quantitative measure instrumentally; in microbiology the LoQ is theoretical in nature; LoD = limit of detection, it is the lower concentration limit below which the sample cannot be detected; in qualitative analyzes it represents the minimum concentration at which it is possible to determine or not the presence of an analyte; NQ = not quantifiable, indicates a value lower than LoQ; NR = not detectable, indicates a value lower than LoD; "<x" or "> x" respectively indicate a value lower or higher than the measurement range of the test, where x is the result; N.A. = not applicable to the test; ME. = Internal Method

(m): Indicates a change from the previous version of the Test Report.

(e): Indicates that the test / activity was performed under subcontract.

The analytical results refer exclusively to the sample under test.

IF NOT DIFFERENTLY SPECIFIED: quantitative microbiological tests can be performed on single replicates and two consecutive dilutions in compliance with UNI EN ISO 7218: 2013; the results of this Test Report are not correct for the recovery factors (R) as the recovery values are within the tolerance indicated in the test method; the summations are calculated using the lower bound criterion (L.B.)